

Session 101

Ethernet Security

Wed, Dec 10, 2008

8:30 – 9:45 AM

Chairperson:

Andy Norton, Distinguished Engineer
CloudShield Technologies, *an SAIC company*

Changing Role of Ethernet Security

As 10 Gigabit Ethernet matures and moves rapidly to 40 Gb and 100 Gb, the market has shifted quite rapidly to an Ethernet everywhere model. From the backplanes of high performance telecom equipment to the backbones of some of the largest networks, Ethernet has replaced proprietary cell switching fabrics, venerable storage networking protocols and even resilient SONET long-hauls in favor of the more affordable and easy to interoperate Ethernet.

Ethernet everywhere introduces new challenges in today's world of protecting our critical infrastructure, public safety and national security. The Internet has transformed our lives forever and we now see the call to secure our network infrastructure. High performance Ethernet networks require not only service quality but also security built in from the ground up. Trusted Network Security Platforms built upon proven network capabilities are emerging. These platforms and network infrastructures will be based on Ethernet but introduce secure traditional and non-traditional computing blades delivering a strong foundation for our cyber security needs. From Secure boot strategies to encryption protocols, our networks are about to change forever, integrating secure communications and delivering the cyber security required to protect this critical infrastructure that we have come to depend on.

Speakers

- Shahab Etemad, Chief Scientist/Director, Telcordia,
“An Overlay Photonic-Layer Security for 100 Gb/s Services”
- Steve Singer, Worldwide Systems Eng Mgr, SafeNet,
“MACsec Security: Building Standards-Compliant Products for Secure LAN/MAN Networking”
- John Fryar, Dir Tech Mktg,
“Green Data Replication over Ethernet: Optimizing for Security, Power, Bandwidth, and Cost”
- Brian Weis, Cisco Systems,
“Comprehensive Security for IEEE 802.1 Networks”
- Kin-Yip Liu, Dir Customer Solns Architecture, Cavium Networks,
“10G Intelligent Networking Processor Addressing Security and Deep Packet Inspection”